ACC NR: AP7010680

SOURCE CODE: PO/0046/66/011/07-/0555/0566

AUTHOR: Wajda, Stanislaw--Vayda, S.; Pruchnik, F .-- ?rukhnik, F.

ORG: Department of Inorganic Chemistry, Wroclaw University, Wroclaw (Entedra chemii nicorganicznej universytetu wroclawskiego)

TITLE: Isotopic exchange as a criterion of the structure of octahedral /1:e (CNS) 6/N= Complexes. II. Isotopic exchange in the system /Mo(NCS)6/3-NI/CS=

SOURCE: Nukleonika, v. 11, no. 7-8, 1966, 555-566

TOPIC TAGS: isotope, radioactive source, isotopic exchange, reaction mechanism, molybdate

SUB CODE: 07,18

ABSTRACT: The exchange kinetics of radiocarbon in hexathiccyanatomolybdate (III) was examined. The exchange was found to proceed according to the dissociation mechanism S_{N_1} after a certain induction period. On the basis of these data the mechanism of isotopic exchange is given. The magnitude of the activation energy (21.9 kcal/mole) suggests that the Mo-N bonding is covalent but it is weaker than that in the chromium complex. Orig. art. has: 9 figures and 7 tables. (Based on authors! Eng. Abst./NA/

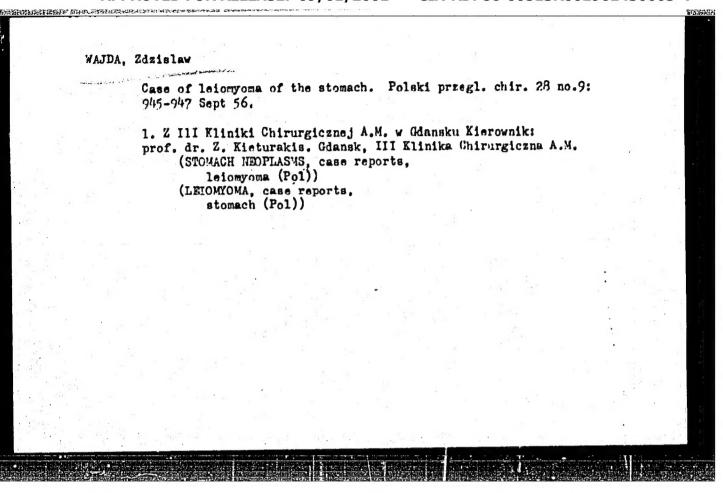
Card : 1/1

0930 1869

TAUBENFLIEGEL, W.; WAJDA, Z.; IEWINSKI, A.

Determination of the condition of vascularization of pedicle skin grafts (Gillies-Filatov) by the thermoelement. Acta chir. plast. (Praha) 7 no.3:236-240 165.

1. The 3rd Surgical Clinic, Medical Academy, Gdansk (Poland) (Director: Prof. Zdzislaw Kieturakis M.D.).



Unusual complication following wearing truss. Polski przegl. chir.
29 no.7/21-722 July 57.

1. Z III. Kliniki Chirurgioznej A. M. w Gdansku. Kierownik: prof. Z.
Kieturakis.
(HERNIA, VENTRAL, therapy,
truss, causing perf. of shdom. wall & prolapse of
omentum (Pol.))
(ABDOMINAL WALL, perforation,
caused by truss with prolapse of omentum (Pol.))
(OMENTUM, diseases,
prolapse by truss, with atdom. wall perf. (Pol.))

WERMUT, W.; SWICA, S.; WAJDA, Z.

Case of symptomatic hypertension cured by removal of hypoplastic kidney. Polski tygod. lek. 13 no.42:1635-1638 20 Oct 58.

1. (Z II Kliniki Chorob Wewnetrznych A. M. w Gdansku; kierownik: Prof. dr J. Penson i z III Kliniki Chirurgic:nej A. M. w Gdansku; kierownik: prof. dr Z. Kieturakis) adres: Gdansk, Panstw. Szpital Kliniczny II Kliniki Chorob Wewnetrznych.

(HYPERTKNSION, case reports

renal, cure by removal of hypoplastic kidney (Pol))

(KIDNEYS, abnorm.

hypoplasia causing hypertension, cure by nephrectomy (Po))

TAUBENFLICEL, Wiktor, WAJDA, Zdzisław, SENYK, Jerzy.

Experimental research on the suitability of free flaps from the peritoneum to supplement defects in the walls of the gastrointestinal system. Polski przegl.chir. 30 no.::149-151 Mar '58

1. Z III Kliniki Chirurgicznej A.M.C. Kierownik: prof. dr Z. Kietrustis Gdansk, ul. Sluzby 9. III Klinika Chirurgiczna A.M.

(GASTROINTESTINAL SYSTEM, surg.

free peritoneal flaps to supplement defects in walls of gastrointostinal system in animals (Pol))

(PERITOREUM, surg.

same (Pol))

Tuberculosis of the spleen. Polski przegl. chir. 31 no.3:345-348 Mar 59.

1. Z III Kliniki Chirurgioznej A. M. Gdansku Kierownik: prof. dr Z. Kieturskis. Adres autora; Gdansk-Wrzeszcz, ul. Wajdeloty 10.

(TUBERCULOSIS, cane reports.

spleen (Pol.))

(SPIERN, dis.

tuberc. (Pol.))

SWICA, Stanislaw; WAJDA, Zdzislaw

A case of spontaneous gastric dilatation. Pol. tyg. lek. 17 no.17: 644-645 23 Ap 162.

1. Z III Kliniki Chirurgicznej AM w Gdansku; kierownik: prof. dr Z. Kieturakis.

(STOMACH dis)

WAJDA, Zdzislaw; LEWICKI, Kazimierz

Spontaneous bleeding into the peritoneal cavity from the cystic artery. Pol. przegl. chir. 34 no.1:59-60 162.

1. Z III Kliniki Chirurgicznej AM w Gdansku Kierownik: prof. dr Z Kieturakis. (GALLELADDER dis) (HEMORRHAGE)

MIERZEJEWSKI, T.; MIRECKI, L.; PENSON, J.; SWICA, S.; WAJDA, Z.; WROZOLKOWA, T.

Pheochromocytoma. Diagnostic value of aorto-arteriography and therapeutic problems. Kardiol. pol. 6 no.3:155-159 '63.

1. Z II Kliniki Chorob Wewnetrznych Kierownik: prof. dr J.
Penson z Kliniki Radiologii i Radioterapii Kierownik: prof.
dr W. Grabowski z III Kliniki Chirurgicznej Kierownik: prof. dr
Z. Kieturakis z Zakladu Anatomii Patologicznej AM w Gdansku
Kierownik: prof. dr W. Gzarnocki.

(PHEOCHRCMOCYTOMA) (ANGIOGRAPHY)

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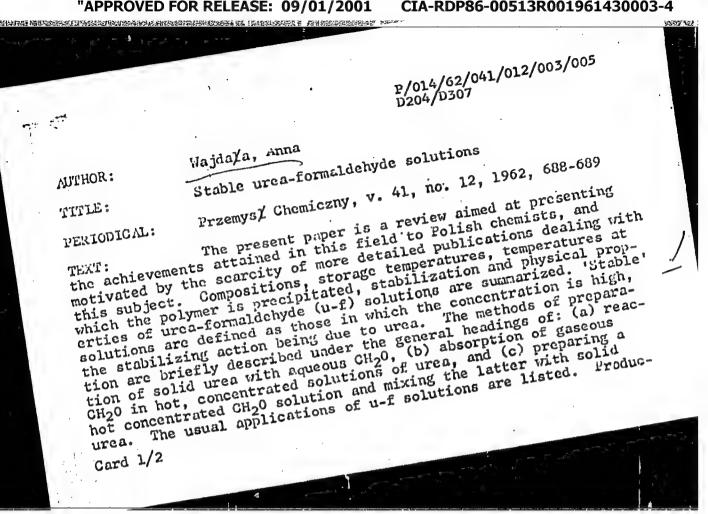
WAJDA, Zdzislaw: GOLYNSKI, Slawomir; WASOWSKI, Janusz

Treatment of duodenal fistulae with a pancreatic inhibitor "trasylol". Pol. przegl. chir. 36 no.11:1367-1369 N *64

1. Z III Kliniki Chirurgicznej Akademii Medycznej w Gdansku (Kierownik: prof. dr. Z. Kieturakis).

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Stable urea-formaldehyde solutions

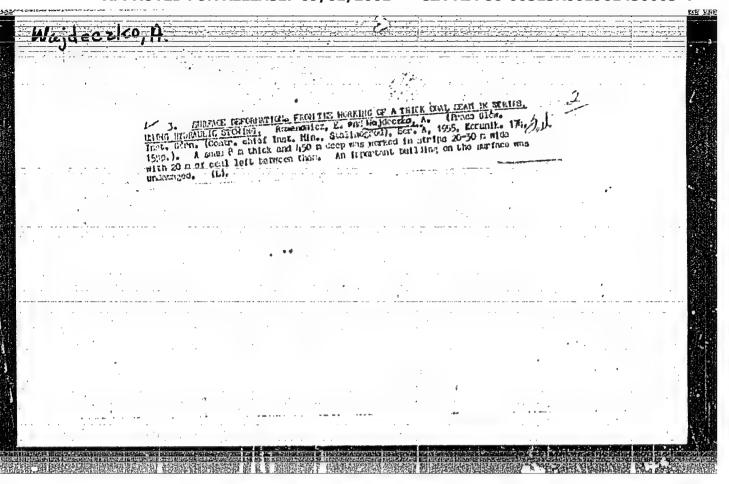
P/014/62/041/012/003/005 D204/D307

tion and utilization of stable u-f solutions is recommended, in view of the considerable savings in transportation and storage costs, more efficient applications in the chemical industry and a saving of methanol (70-120 kg MeOH/ton of formalin) which is at present used to stabilize the solutions. Some Western-produced stable u-f solutions and concentrates are characterized. Research into the production and properties of stable u-f solutions has now been started at ZA Kędzierzyn / Abstracter's note: Zaklady Azotowe (Nitrogen Works) Kędzierzyn / There are 14 references: 3 Soviet-bloc and 11 non-Soviet-bloc.

ASSOCIATION:

ZA Kędzierzyn

Card 2/2



WAJDECZKO, A; MIELECKA, T.; IHNATCWICA, A.

Changes in some technological properties of coal under the influence of natural ventilation. p. 139

ARCHINUM GORNICTAA. (Polaska Adademia Nauk. Komitet Gornictua) Warszawa, Poland. Vol. 4, no. 2, 1959

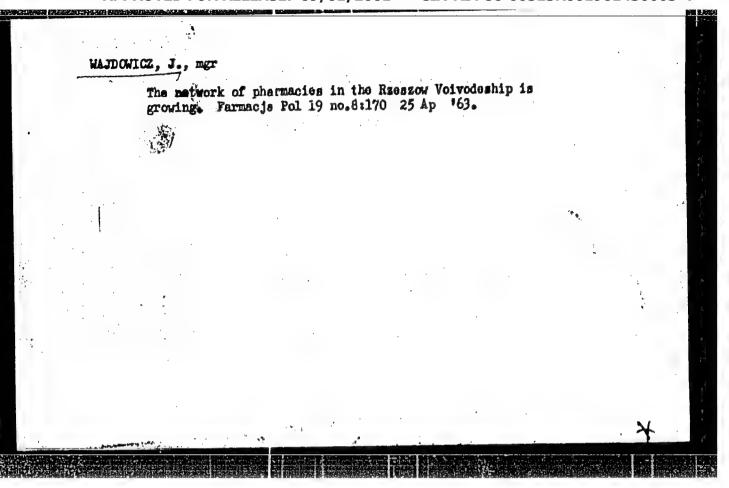
Monthly list of East European Accession (EEAI) LC, Vol. 9, no. 2, Feb. 1960

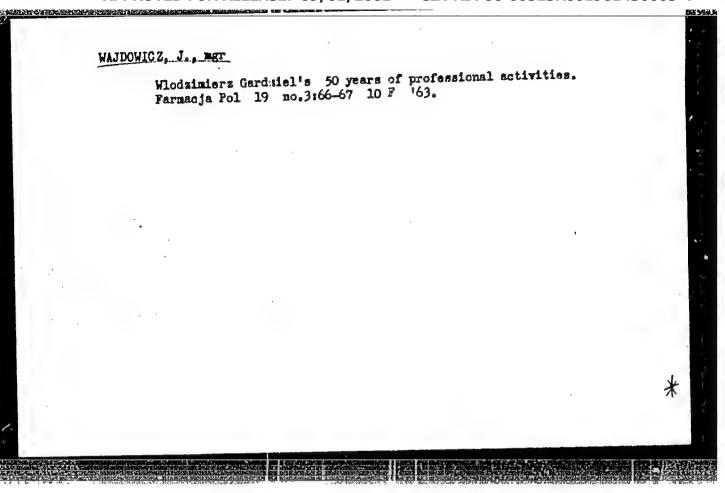
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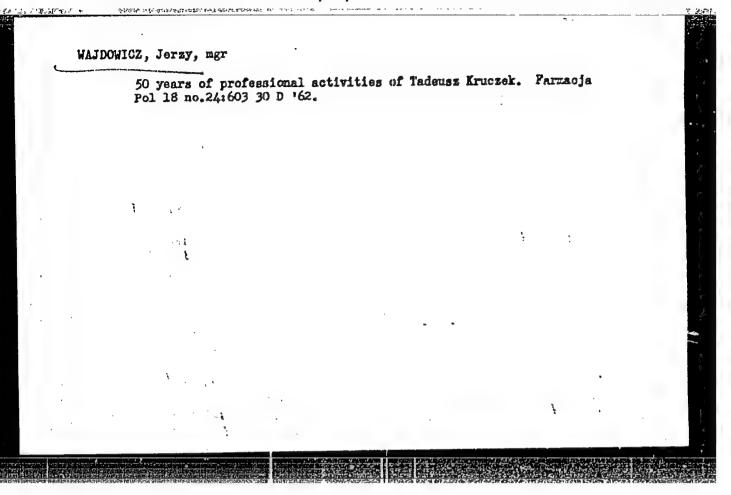
TROJANOWSKI, Kazimiorz, dr. inz.; WAJDECZKO, Augustyn, inz.; PYTIARZ, Tadeusz, mgr. inz.

Development of ground deformation in time resulting from working a shallow seam. Przegl gorn 20 no.11:547-552 N 164.

WAJDOWICZ, A. Biffect of ultra-violet rays on the erythropoietic activity of the kidney. Fol. biol. (Krakow) 13 no.31317-321 '65. 1. Institute of General and Experimental Pathology, Medical Academy, Krakow.







WAJDOWICZ, Z.

"Utilization of small streams for fish culture" p. 5 (GOSPODARKA RYEWA, Vol. 5, No. 3, Mar. 1953 Warszawa, Poland)

SO: Monthly list of East European Accessions, S.C., Vol. 3, No. 4, April 1954

WAJDOWICZ, Z.

Management of fishing in the Bcczalkowice water reservoir. p. 504. GOSPODARKA WORMA, Warszawa. Vol. 15, no. 12, Dec. 1955.

SOURCE: East European Accessions List (EEAL) Library of Congress Vol. 5, no. 8, August 1956.

WAJIOWICZ, Z.

WAJPOWICZ, Z. Workers of the Institute of the Biology of Ponds of the Polish Academy of Sciences on a visit in Czechoslovakia. p. 8. /ol. 8, no. 12, Dec. 1956. GOSPODARKA RYPHA. Warszawa, Poland.

SOURCE: East European Accessions List (FFAL) Vol. 6, No. 4-- April 1957

WAJDOWICZ, Z.

WAJDOWICZ, Z. The Gorzalkowice water reservoir as the site for fish culture; stocking it with fry. p. 13. Principles of preparation of food mixtures for fish. p. 15.

Vol. 7, no. 7, July 1955 GOSPODARKA RYENA AGRICULTURE Poland

So: East European Accession, Vol. 6, No. 5, May 1957

WAJDOWICZ, Zbigniew, mgr., eng.

The Goczalkowice reservoir as an object of fish culture. III. Further development of the fish stock. Acta hydrobiol 3 no.4:225-239 '61.

1. Stacja Hydrobiologiczna, Zaklad Biologii Wod, Polska Akademia Nauk, Goczalkowice, powiat Pszczyna.

(Poland-Fish culture)

WAJDOWICZ Thirtier, dr.

Development of ionity of and in dem reserviors with small veriations in the water level. Fata hydribiol 6 no. 1861-79 162

1. Zaklad Biologii Yod, Ibleka Skademis Nauk, Frakow.

WAJDZIK, C.

WAJDZIK, C. Usefulness of fissured walls in buildings in the light of more experiments. (To be contd.) p. 17. Vol. 8, no. 10, Oct. 1956. EUDOWNICTWO WIFJSKIE. Warszawa, Poland.

SOURCE: East Europea n Accessions List (EEAL) Vol. 6, No. 4-April 1957

WAJDZIK, C.

WAJDZIK, C. Hum dity is the chief defect of fissured walls. II(to be contd.) p. 13

Vol 8, no. 11, Nov. 1956 BUDOWNICTWO WIEJSKIE AGRICULTURE Warszawm, Poland

So: East European Accession vol 6, no. 3, March 1957

WAJDZIK, C.

WAJDZIK, C. Usefulness of fissured walls in buildings in the light of more recent experiments. III. (Conclusion) p. 17. Vol. 8, no. 12, Dec. 1956. BUDOWNICTVO WIEJSKIE. Warszawa, Poland.

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WAJDZIK, C.

The amount of surface condensation in farm buildings. p. 4.

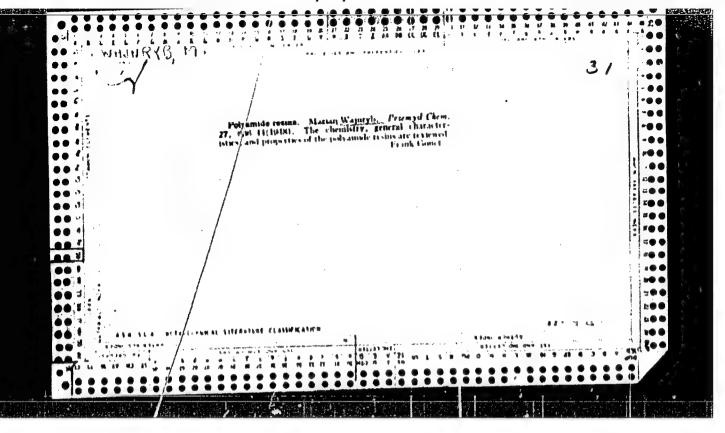
BUDOWNICTWO WIEJSKIE. (Ministerstwo Rolnictwa i Ministerstwo Panstwowych Gospodarstw Rolnych) Warsawa, Poland. Vol. 11, no. 10, Oct. 1959

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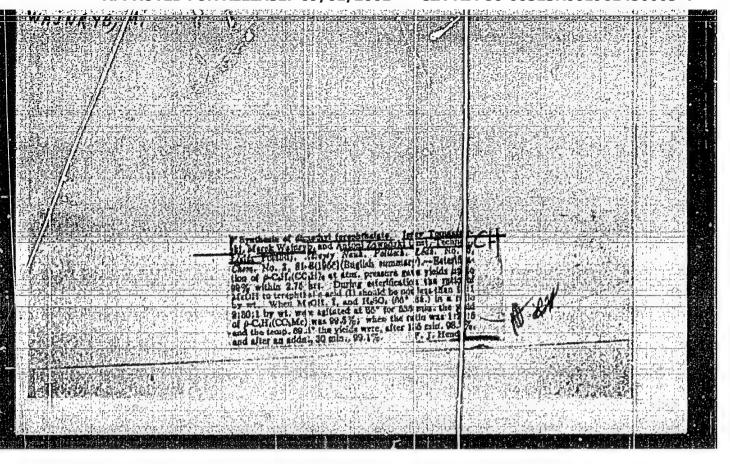
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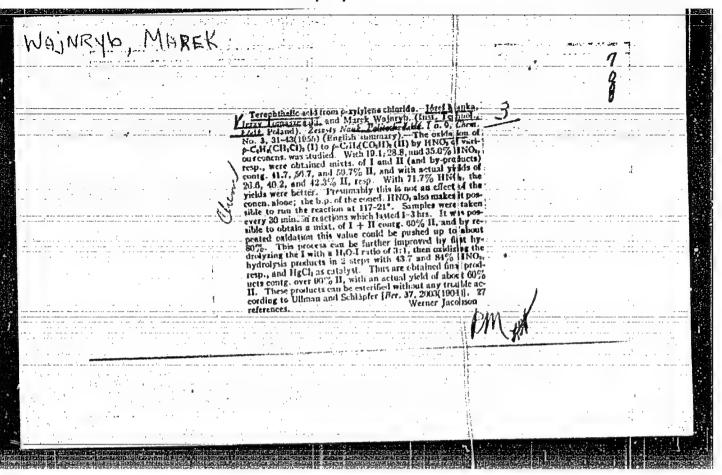
WAJNOOT. F. "Criticism Improves our Publication," P. 227. (PENENSI CHEMICENY, Vol. 10 No. 5, May 1954. Warszawa, Poland) SO: Monthly List of East European Accessions, (EEAL), IC, Vol. 4, No. 1, Jan. 1955 Uncl.

WAJINIOT, F. "Conference of Readers and Contributors to Chemical Periodicals," P. 194. (PRZEGLAD TECRNICZNY, Vol. 75, No. 5, May 1954. Warszawa, Poland) SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 1, Jan. 1955 Uncl.



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WAJNRYB, M.; MOLINSKI, S.

"Synthetic products in medicine and biology."

p. 35 (Chemik) Vol. 10, no. 2, Feb. 1957 Warsaw, Poland

SO: Monthly Index of East European Accessions (EEAI) IC. Vol. 7, no. 4, April 1958

WAJNRYB M.

Poland Chemical Technology. Chemical Products and Their Application

I-25

Synthetic polymers. Plastics.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32459

Author : Wajnryb M.

Title : Polyethylene

Orig Pub: Przem. chem., 1956, 12, No 4, 195-199

Abstract: Description of the methods of production of

polyethylene by polymerization of ethylene at high and low pressure, of the physico-mechanical properties and dielectric characteristics, and of the scope of utilization of polyethylene.

Bibliography 6 references.

Card 1/1

5/081/62/000/005/097/112 B166/B101

AUTHORS:

Brzeziński, Jan, Wajnryb, Marek

TITLE:

Fractional precipitation of polycarbonates Referativnyy zhurnal. Khimiya, no. 5, 1962, 606, abstract

5P14 (Tworzywa. Guma. Lakiery, v. 5, no. 11-12, 1960, PERIODICAL:

326-334, 383)

TEXT: A short description is given of the theory and principles of fractional precipitation of polymers. A technique and apparatus have been developed for a rapid method of fractional precipitation of polycarbonates under the following conditions: quantity of polymer 1 g, fractionating temperature 20°C, solvent - chloroform, precipitator. - petroleum ether

with a boiling point of 30-50°C, initial polymer concentration 0.5 % by when a bolling point of 30-30 c, initial polymer concentration 0.3 % by volume, fractionating time 6-7 hrs. The molecular weight was determined by viscometry in chloroform at 25°C. On the basis of the experimental data the relationship between the molecular weight and the viscosity of

Card 1/2

S/081/62/000/005/097/112 B166/B101

Fractional precipitation of ...

solutions of polycarbonates in chloroform at 25°C was defined. The article gives the molecular composition of commercial grades of polycarbonates intended for the production of film and for treatment by the injection molding process. [Abstracter's note: Complete translation.]

Card 2/2

8/081/62/000/003/067/090 B159/B101

AUTHOR:

Wajnryb, Marck

TITLE:

The stereoregular structure of polymers

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 3, 1962, 635, abstract

3R2 (Tworzywa wielkocząsteczkowe, v. 6, no. 5, 1961, 144-149)

TEXT: The features of the atactic, isotactic and syndiotactic structures of high polymers, the specific properties of stereoconstant polymers, and crystallinity are examined. The influence of the symmetry of molecules and of lateral substitutions on the degree of crystallinity is discussed in part. 9 references. [Abstracter's note: Complete translation.]

Card 1/1

Methods of evaluation of the thixotropic properties of polyester resins Polimery tworzywa wieloczast 7 no.2:59-64 F 162					
1. Instytut Tworzyw Sztucznych, Warszawa.					
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ZIELINSKA, Daniela; ROSZKO-SKI, Zbigniev; WAJERIB, Marek
Alkyl benzepe as a diluent for polyvinyl chloride blends.
Polimery tworz wielk 7 no.7/8:249-251 Jl-Ag '62.

l. Instytut Tworzyw Sztucznych, Warszawa.

KROZER, Szymon; WAJNRYB, Marek

Studies on the thermomechanical properties of low- and highpressure polyethylene mixtures. Polimery tworz wielk 7 no.10: 367-372 0 '62.

1. Instytut Tworzyw Sztucznych, Warszawa.

MAJEWSKA, F.; WAJERTE, M.

Analyzing methods of commerkial types of polyamides. Polimery tworz wielk 8 no.2:63-65 F *63.

SOBICZEWSKI, Zbigniew; WAJNRYB, Marek

Density measurements of polymers in gardient tubes. Polimery tworz wielk 8 no.2:69-72 F '63.

1. Instytut Tworzyw Sztucznych, Warszawa.

P/014/62/041/012/002/005 D204/D307

AUTHOR:

Wajnryb, Marek

TITLE:

The stabilization of polyvinyl chloride. Part I

PERIODICAL:

Przemys/ Chemiczny, v. 41, no. 12, 1962, 681-684

TEXT: The present article is a review dealing with the causes of the sensitivity of PVC to the combined action of light and air, and to the effects of elevated temperature, even in the absence of air and light. The modern views concerning the structure of PVC and the mechanism of thermal decomposition are given. The lack of stability is due to the existence of weak spots on the macrostructure, such as double bonds, points of branching, and to remnants of initiator. In the absence of air the decomposition proceeds by an ionic mechanism and is made possible by the initial loss of HCl and the resultant formation of conjugated double bonds, which then permit cross-linking. In the presence of air the decomposition is accelerated and both cross-linking and oxidative degradation take place, by a free-radical process. The decomposition may also be

Card 1/2

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P/014/62/041/012/002/005 D204/D307

The stabilization of polyvinyl ...

initiated by irradiation with light. The purpose of stabilizers is described in general terms. There are 3 figures and 12 non-Soviet-bloc references.

ASSOCIATION:

Instytut Tworzyw Sztucznych w Warszawie (Institute Of Synthetic Resins, Warsaw)

Card 2/2

WAJNRYB, M. Conference of the Technical Committee of the International Organization for Standardization, 1961. Przem chem 41 no.12:732-733 D 162.

r/014/63/042/001/002/004 D204/0307

AUTHOR:

vlajnryb, Harek

TITLE:

Stabilization of polyvinyl chloride. II. Stabil-

izers

PERTODICAL:

Przemys/ Chemicuny, v. 42, no. 1, 1963, 16-19

The present article is a review based wholly on Western work over the period 1939-1960. Substances preventing the undesirable side-effects of the thermal decomposition of PVG are discussed under the headings of (a) inorganic and organic salts of lead, (b) organic salts of Cd, Da, Ga, and in, and (c) organic compounds of tin. Attention is focussed on the probable machanisms, the relative effectiveness, and on the specific properties of the polymer which are stabilized with a given compound. A brief description is also given of organic stabilizers; chiefly anti-exidents, which are added to the polymer in conjunction with other stabilizing substances. The problem of light-stabilization is indicated. It is concluded that every variety of PVC requires a different mixture of stabilizers, Card 1/2

THE PRESENT HERE FOR THE PROPERTY OF THE PROPE

r/014/63/042/001/002/004 Stabilization of polysinyl chloride . . . D204/D367

and the importance of (1) thorough distribution of stabilizer throughout the mans of PW, and (2) prevention of adhesion of PW to hot surfaces by adding lubricants, is underlined. Thermal decomposition of the polymer is himiered only by in stabilizers, whilst the other substances discussed preserve only the color of the polymer. It is considered that stabilization by the addition of free radical acceptors is not yet fully explored. There are 9 figures and 12 non-Sovietbloc references.

ASSCRIATION:

Instytut Tworzyw Satucznych w Warszawie (Institute of Plastice, Hareaw)

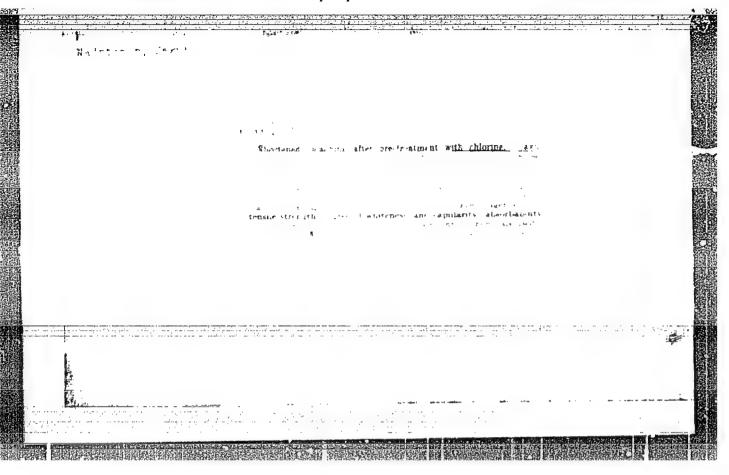
WAJNTRAUB, J.

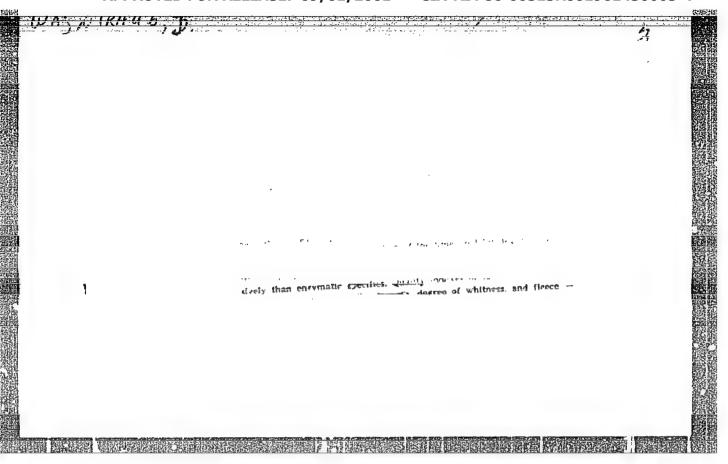
Method of defining the chemical damage to wool during the process of accouring.

<u>Piuletyn Wlok. p. 12.</u> (PRZEMYSL WICKIENNYCZY, Lodz, Vol. 7, no. 7/8, July/Aug. 1953.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 1, Jan. 1955, Uncl.

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WAJNTRAUB, J.

Elaboration of the condition of bleaching the fabric made of mixtures of cotton-cut viscose fiber. Biuletyn Wlok.

p. 21 Vol. 9, no. 6, Aug. 1955 PRZEMYSL WLOKIENNICZY Lodz

SO: Monthly List of East European Accessions (EEAL), LC, Vol. 5, no. 3 March 1956

WAJS, K. Determination of essential parameters of drive of hoisting machines. p. 440

Vol. 31, No. 7, July 1955 PRZECIAD ELEKTROTECHNICZNY TECHNOLOGY Poland

So: East Europeon Accession, Vol. 5, Ac. 5, May 1956

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961430003-4

HAJJ, X.

Regulators in automaticed systems, p. 106 MALCHOUGI EIRCPROTESSMISSMIN. (Obstarzysmente Elektrykow Pouskish, Centrally Zurrad Americkýki, Centralny Tyrosof Turchyslu Yaszya blekbryo mych, Centralny Carsad Przemysku Kablonego) tamatara Vol. 6, No. 5, Vay 1956

So. East Europeum Accessions List

Vol. 5, No. 9

Contember 1956

Reversible clutching in automatized systems. p. 204. (WIADOMOSCI ELEKTROTECHNICZNE. Vol. 16, no. 9, Sept. 1956, Warszawa, Polund)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 12, Dec. 1957. Uncl.

"Evaluation of the quality of operation of automatized systems."

p. 223 (Wiadomosci Elektrotechniczne) Vol. 17, no. 9, Sept. 1957 Warsaw, Poland

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

Direct and indirect regulators.

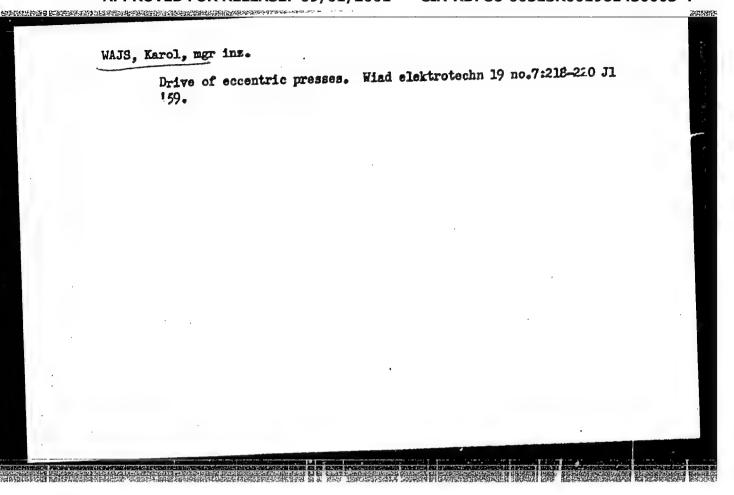
P. 56 (WIADOMOSCI ELEKTROTECHNICZNE) (Warazawa, Poland) Vol. 17, no. 3, Mar. 1957

SO: Monthly Index of East European Accessions (EEAI) LC Vol. 7, No. 5. 1958

Something new from the field of drives in hoisting machinery. p. 57

WIADOMOSCI ELEKTROTECHNICZNE. (Stowarzyszenie Elektrykow Polskich, Centralny Zarzad Energetyki, Centralny Zarzad Przemyslu Haszyn Elektrycznych i Centralny Zarzad Przemyslu Kablowego) Warszawa, Poland. Vol.19, no.3, Mar. 1959

Monthly List of East European Accessions Index, (EEAI) LC, Vol.8, no.6 June 1959 Uncl.



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AUTHOR:

Wajs, Karol, Master of Engineering

Control and Regulation of Research Reactors 19

PERIODICAL: Wiadomości Elektrotechniczne, 1960, No 7, pp 189 - 192

The author presents an outline description of control and regulation in thermal neutron research reactors as distinguished from power reactors. The article is limited to a descriptive presentation, while physics and safety are omitted. (Reference is made to an article in Wiadomości Elektrotechniczne, 1960, No 3, pp 66 - 68, for the basic description of thermal reactors.) The first chapter of the article deals with the printernal reactors. ciples of reactor control; the definitions of neutron density and multiplication constant are explained, as well as the four factors which interfere with the operational stability of a reactor: a) fuel burn-up, b) introduction and withdrawal of test instruments, test samples etc., c) temperature variations and d) reactor poisoning. The formation and effect of Xe¹ as a reactor poison is briefly explained. Further on, the methods of influencing reactivity are mentioned: control of neutron escape by means of a reflector and neutron absorption by means of a control rod. IX

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Control and Regulation of Research Reactors

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The second chapter deals with the reactor control system. Pointing out that on principle neutron density is controlled, the author mentions the two means of measuring neutron density, i.e. counters and ionization chambers, and he lists the difficulties encountered in such measurement: a) wide range required, b) external disturbances, c) irregular distribution of neutron density. Further on, the amplification, conversion and comparator stages are mentioned and briefly explained. At the close of the article, the author lists the functions of control rods, which are emergency scram, control of the rate of reaction and compensation of disturbances such as fuel burn-up, poisoning etc. There is 1 Figure.

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Card 2/2

AUTHOR:

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Wajs, Karol

TITLE:

The error estimation of linearized nuclear reactor

equations

PERIODICAL: Nukleonika, v. 5, no. 11, 1960, 737 - 742

TEXT: In solving the problem of kinetics of a nuclear reactor by direct analytical methods, one usually substitutes for the general system of differential equations, a system of differential equations with constant coefficients. Errors of this approximation were estimated by the author. A system of kinetic equations was assumed a form given by M.A. Schultz (Ref. 1: Control of Nuclear Reacin a form given by M.A. Schultz (Ref. 1: Control of Nuclear Reacin a form given by M.A. Schultz (Ref. 1: Control of Nuclear Reacin a form given by M.A. Schultz (Ref. 1: Control of Nuclear Reacin after the sum of Power Plants. Chap. 3: Reactor Kinetics, New York 1955, tors and Power Plants. Chap. 3: Reactor Kinetics, New York 1955, tors and Power Plants. Chap. 3: Reactor Kinetics, New York 1955, tors and Power Plants. Chap. 3: Reactor Kinetics, New York 1955, tors and Power Plants. Chap. 3: Reactor Kinetics, New York 1955, tors and Power Plants. Chap. 3: Reactor Kinetics, New York 1955, tors and Power Plants. Chap. 3: Reactor Kinetics, New York 1955, tors and Power Plants. Chap. 3: Reactor Kinetics, New York 1955, tors and Power Plants. Chap. 3: Reactor Kinetics, New York 1955, tors and Power Plants. Chap. 3: Reactor Kinetics, New York 1955, tors and Power Plants. Chap. 3: Reactor Kinetics, New York 1955, tors and Power Plants. Chap. 3: Reactor Kinetics, New York 1955, tors and Power Plants. Chap. 3: Reactor Kinetics, New York 1955, tors and Power Plants. Chap. 3: Reactor Kinetics, New York 1955, tors and Power Plants. Chap. 3: Reactor Kinetics, New York 1955, tors and Power Plants. Chap. 3: Reactor Kinetics, New York 1955, tors and Power Plants. Chap. 3: Reactor Kinetics, New York 1955, tors and Power Plants. Chap. 3: Reactor Kinetics, New York 1955, tors and Power Plants. Chap. 3: Reactor Kinetics, New York 1955, tors and Power Plants. Chap. 3: Reactor Kinetics and Power Plants. Chap. 3: Reactor Kinetics, New York 1955, tors and Power Plants. Chap. 3: Reactor Kinetics, New York 1955, tors and Power Plants. Chap. 3: Reactor Kin

Card 1/4

The error estimation of ..

vity. In order to estimate the deviation of the linearized system applying a theorem given by T. Wazewski (Ref. 2: Système des équations et des inégalités différentielles ordinaires aux deuxième membres monotones et leurs applications. Annales de la Soc. Pol. memores monotones et leurs applications. Annales de la Soc. Polde Mth. t. 23, 1950, pp 112-166). The errors were considered separately for two cases: positive initial reactivity and negative parately for two cases: positive initial reactivity and negative initial reactivity [Abstractor's total test k(t) < 0 appears in text initial resctivity [Abstractor's total test for both cases is erroneously as k(t) > 0], and the final result for both cases is presented by a single expression:

 $/n_1(t) - n_2(t)/< \frac{n_{extr} - n(0)}{\tau} \int_{\Lambda}^{t} \delta k(t) dt$

where $n_1(t)$ and $n_2(t)$ are neutron densities given respectively by the exact system of equations and the approximate one, and nextr

Card 2/4

The error estimation of ...

is the extremum value of the function n(t) measured against the initial value n(0). For practical calculations a specified timedependence of the reactivity has to be assumed; e.g. if the reactivity jumps to a value $\delta k(t) = k_0$, the expression for the error

reduces to:

 $/n_1(t) - n_2(t)/ < \frac{k_0 t}{\tau} [n_{extr} - n(0)]$

the constant of integration being eliminated by the initial condition: $n_1(0) = n_2(0) = n(0)$. It is stated that the evaluated error is safely larger than an exact estimate due to the fact that the delayed neutrons were neglected, and the effect of including the delayed neutrons were neglected, and the effect of including the delayed neutrons is discussed. In conclusion, results of a simplified numerical calculation are presented for the extreme case of a very small reactivity. There is 1 figure and 2 references: 1 Sovery small reactivity. There is 1 figure and 2 references: 1 Soveret-bloc and 2 non-Soviet-bloc. The reference to the English-languet-bloc and 2 non-Soviet-bloc. M.A. Schultz, Control of nuuse publication reads as follows: M.A. Schultz, Control of nuuse Card 3/4

The error estimation of ...

clear reactors and power plants, McGraw Hill, New York, 1955, Chap. 3.

ASSOUIATION: Instytut elektrotechniki, Warszawa (Electro-Technical

Institute, Warsaw)

September, 1960 SUBMITTED:

CIA-RDP86-00513R001961430003-4" APPROVED FOR RELEASE: 09/01/2001

WAJS, Karol, mgr., inz.

Increase of the probability of a steady state by regulation.
Pomiary 7 no.10:420-422 0 '61.

(Automatic control)

WAJS, Karol, Mgr. Inz.

Rotor emergency breaking in an electric motor. Inst Klektrotech 9 no.26:69-80 161.

1. Zaklad Konstrukcji Urzadzen i Maszyn Elektrycznych, Warszawa.

	Raviewed by Wajs	matrices applied in K. Przegl elektrote	ohn 37 no.11:469	-470 '61.		
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WAJS, Karol, mgr inz.

Integral criteria of the operational quality of a feedback control system as topological problem. Inst elektrotech prace 10 no.29: 89-96 62.

1. Osrodek Dokumentacji i Informacji Naukowij, Warszawa.

P/530/62/010/030/001/001 D201/D308

AUTHOR:

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TITLE:

Waja, Karol, Master of Engineering

Phase plane linearization of control elements

SOURCE:

Warsay, Instytut Elektrotechniki. Prace, v.10, no. 30, 1962, 47-57

The author shows that when the non-linear component TEXT:

The author shows that when the non-linear component of a feedback control system is described by a differential equation of the second order, it may be replaced by a linear first or second order element, the transfer function of which is determined from the analysis of phase trajectory. With small deviations from the state of equilibrium the phase trajectories can be approximated by piece-of equilibrium the phase trajectories can be approximated by piece-of approximate solution of differential equations. When the changes of approximate solution of differential equations. When the changes of the independent variable are considerable, the harmonic approximation may be used; the latter may be considered as a certain interpretation of the Fourier series the constant term of which determines the

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Phase plane linearization ... D201/D308

locus shift along the abscissa and the harmonic terms differ only in their origin. In practice, the harmonic approach is restricted to two cases only: when the equilibrium is on the abscissa itself and when instants of time have to be calculated for regions near to the abscissa. There are 6 figures.

ASSOCIATION:

Zak/ad Dokumentacji i Informacji Naukowej (Depart-ment of Scientific Documentation and Information)

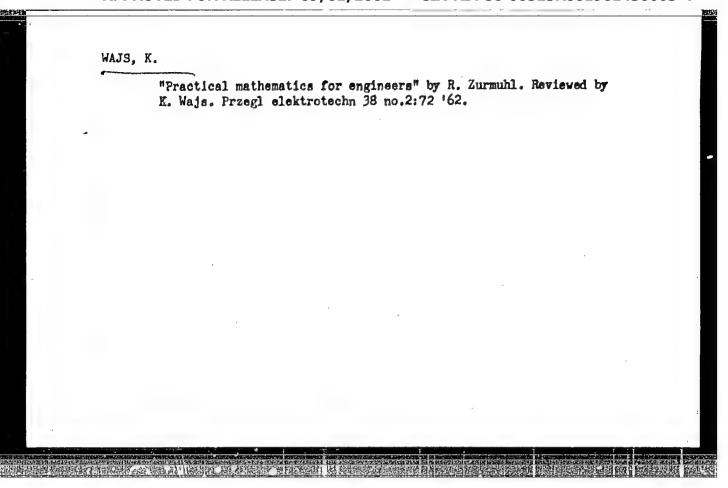
February 22, 1962

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WAJS, Karol, mgr inz.

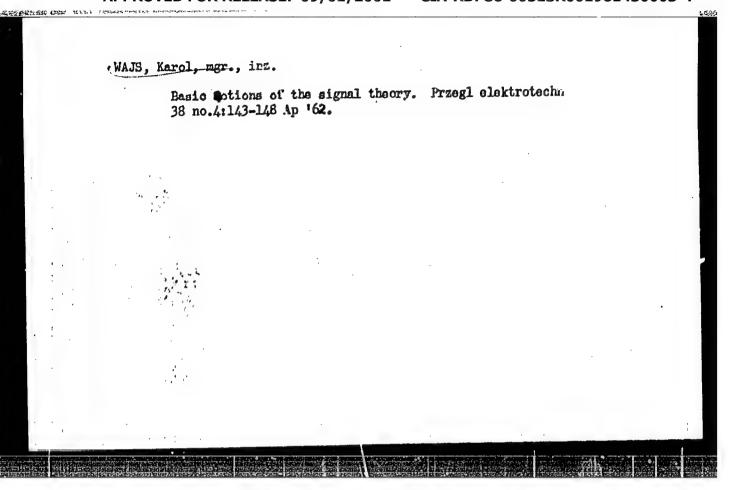
Higher order control system components in the phase plane. Inst elektrotech prace 10 no.31:45-54 62.

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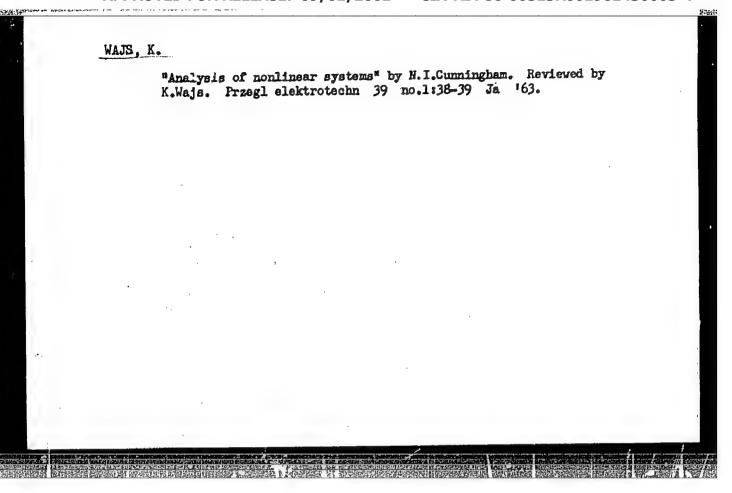


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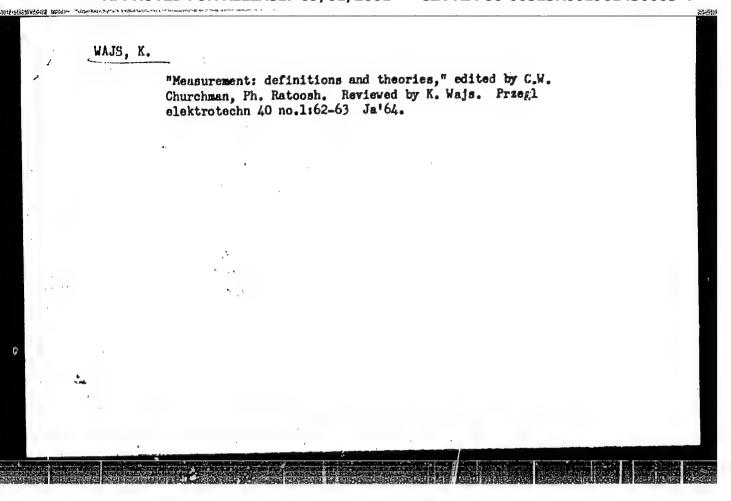
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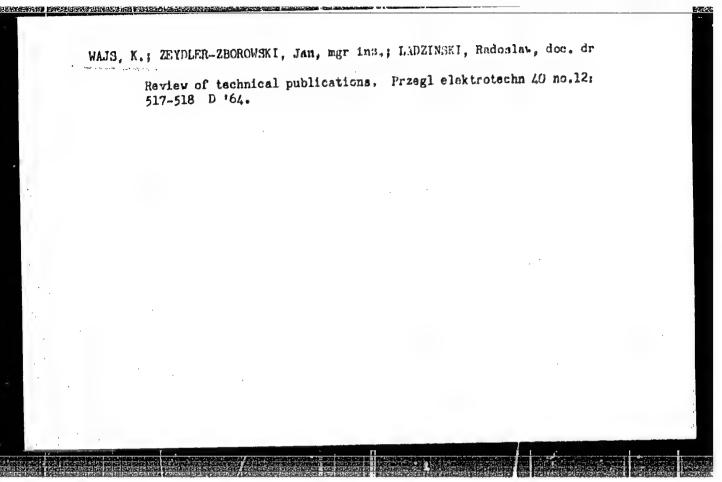
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Archangielski's driving system. Przegl. elektrotechm 40 no.6: 274-279 Je 164

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Control systems of equal value, inst elektrotech prace 11 no.33:21-42 163

Corodek Pokumentacji i Informacji Naukowej, Instytut Elektrotechniki, Marszawa.



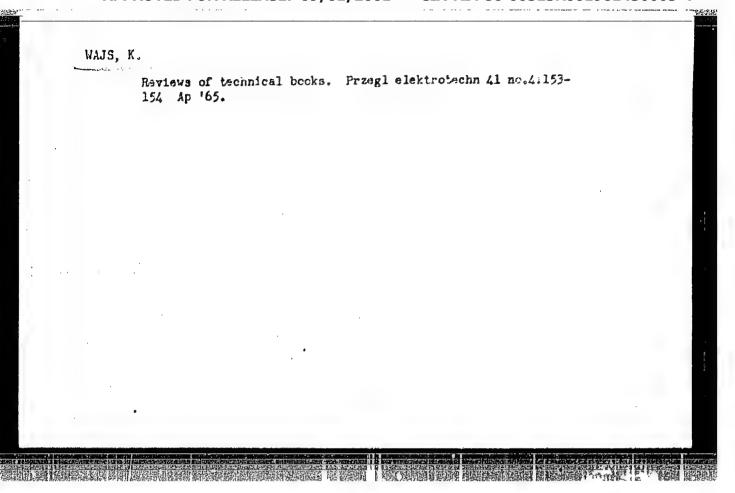
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	TOPIC TAGS: automation, automatic control of the differentiating element, constant, proportional element, integrating element, differentiating element,
	constant, proportional element,
1837	control system performance
	ABSTRACT: This paper presents a method for determining the numerical values of
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	ing and differentiating elements of control systems. The method is based on the
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4	determined when the time characteristic (determined that is a source of function) of the given element is known. The time characteristic is a source of
	function) of the given element is known. The time that determined, many attempts are information on such elements and, since it is readily determined, many attempts are information on such elements and, since it is readily determined, many attempts are
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	the part of time constants- from the shape of the present paper is these methods are time-consuming. The method developed in the present paper is
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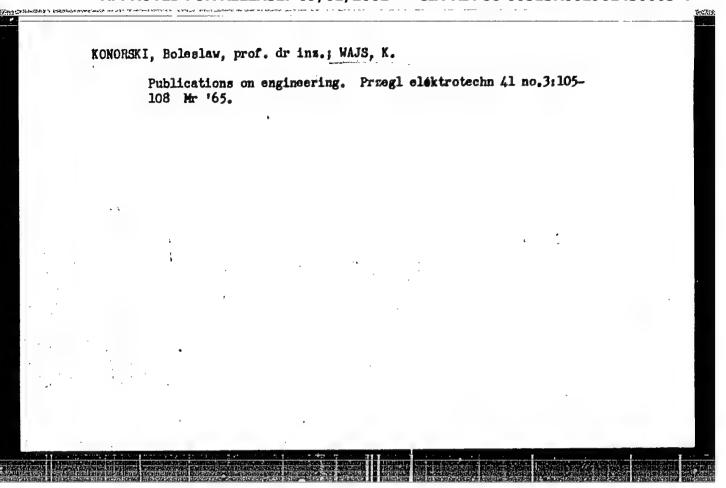
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ئى بىيەن ئىرىن	performance quality of a control system. The weighted in egral criterion of
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	where $f(t)$ is the difference between the steady-state output of the element and the instantaneous value of the output. The evaluation of this integral is a simple
	the instantaneous value of the output. The evaluation of this integral is a simple
	matter when the time characteristic is available. Each of the above integrals,
	matter when the time characteristic is available. Each of the above integrals, corresponding to different n, can be expressed as a combination - usually a simple corresponding to different n. The method is developed for proportional.
	the instantaneous value of the output. The evaluation of this integral is a simple matter when the time characteristic is available. Each of the above integrals, corresponding to different n, can be expressed as a combination - usually a simple one - of the various time constants. The method is developed for proportional,
	the instantaneous value of the output. The evaluation of this integral is a simple matter when the time characteristic is available. Each of the above integrals, corresponding to different n, can be expressed as a combination - usually a simple one - of the various time constants. The method is developed for proportional, integrating and differentiating elements. The values of the integral criteria for
	the instantaneous value of the output. The evaluation of this integral is a simple matter when the time characteristic is available. Each of the above integrals, corresponding to different n, can be expressed as a combination - usually a simple one - of the various time constants. The method is duve oped for proportional, integrating and differentiating elements. The values of the integral criteria for n = 0,1,2 and 3 weighted for these elements, expressed if terms of the time con-
	the instantaneous value of the output. The evaluation of this integral is a simple matter when the time characteristic is available. Each of the above integrals, corresponding to different n, can be expressed as a combination - usually a simple one - of the various time constants. The method is duve oped for proportional, integrating and differentiating elements. The values of the integral criteria for n = 0,1,2 and 3 weighted for these elements, expressed in terms of the time constants which appear in the operator transfer function of the element, are tabulated.
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	the instantaneous value of the output. The evaluation of this integral is a simple matter when the time characteristic is available. Each of the above integrals, corresponding to different n, can be expressed as a combination - usually a simple one - of the various time constants. The method is developed for proportional, the integral criteria for n = 0,1,2 and 3 weighted for these elements, expressed in the composition of the element, are tabulated. The method is particularly convenient for proportional elements but can still be used with advantage for the other two types of elements. However, the formulas
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BIALKIEWICZ, Zbigniew, mgr inz.; SCISLOWKI, Włodzimierz, prof, dr; BIERNACKI, Tomasz; KAJS, K.

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Development of the wave policy in the machine manufacturing industry in Poland. p.307.
MECHANIK (Stowarzyszenie Inzymierow i Technikow Mechanikow Polskich) Marshawa Vol. 28, no. 8, Aug. 1955

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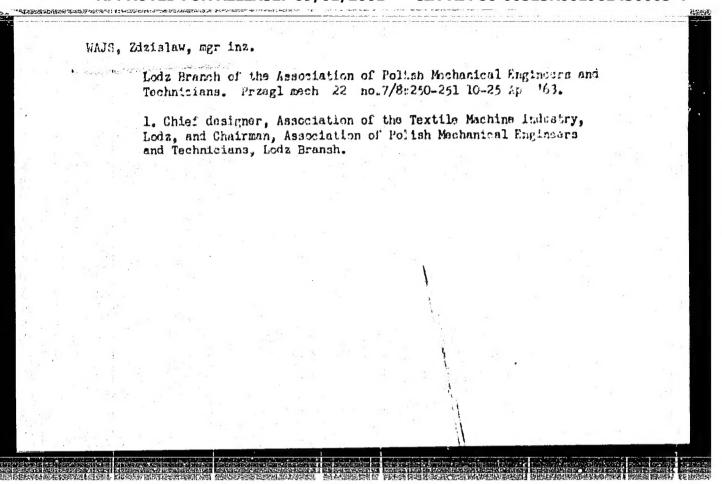
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(Mosaic disease)

(Viruses)

KICZAK, Janina; SKBASTYANSKI, Tadeusz; SAMAN, Zygmunt; WAJSKOL, Adela

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1. Z II Kliniki Chorob Wewnetrznych P.A.M. w Szczecinie; kierownik: pref. dr Edward Gorskowski.

(HODGKIN'S DISEASE compl) (ANEMIA HEMOLYTIC compl.)

WAJSKOL, Aron (Szczecin, al. Powstancow 72 II Kl. Chir. Pom. Ak. Med.)

Body potassium metabolism & its importance in the surgical clinic, Polski tygod. lek. 14 no.10:446-448 9 Mar 59.

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(POTASSIUM, metab.

disord., significance in surg. (Pol))